

CLN00108891_5pv1.a NP_003801_NM_003810	MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQM----- MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACFLKE *****
CLN00108891_5pv1.a NP_003801_NM_003810	-----ILRTSEETISTVQEKQQNISPLVHERGPQ DDSYWDPNDEESMNSPCWQVKWQLRQLVRKNILRTSEETISTVQEKQQNISPLVHERGPQ *****
CLN00108891_5pv1.a NP_003801_NM_003810	RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNHLRNGELVIHEKG RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNHLRNGELVIHEKG *****
CLN00108891_5pv1.a NP_003801_NM_003810	FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLY FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLY *****
CLN00108891_5pv1.a NP_003801_NM_003810	SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLVG SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLVG *****

Fig. 1

CLN00493987_5pv1.a	-----MQMVVLPCLGFTLLWSQVSGAQGQEFHFGPCQ	33
NP_006841_NM_006850_exon4	-----	0
NP_006841_NM_006850	MNFQQRQLQSLWTLARPFCPPLLATASQMVMVLPCLGFTLLWSQVSGAQGQEFHFGPCQ	60
CNL00453866_5pv1.a	-----MQMVVLPCLGFTLLWSQVSGAQGQEFHFGPCQ	33
NP_006841_NM_006850_exon1	MNFQQRQLQSLWTLA-----	14
CLN00493987_5pv1.a	VKGVVPQKLWEAFWAVKDTMQAQDNITSARLLQQEVLQNVSDAESCYLHVHTLLEFYLKTV	93
NP_006841_NM_006850_exon4	-----DAESCYLHVHTLLEFYLKTV	19
NP_006841_NM_006850	VKGVVPQKLWEAFWAVKDTMQAQDNITSARLLQQEVLQNVSDAESCYLHVHTLLEFYLKTV	120
CLN00453866_5pv1.a	VKGVVPQKLWEAFWAVKDTMQAQDNITSARLLQQEVLQNV-----	73
NP_006841_NM_006850_exon1	-----	14
CLN00493987_5pv1.a	FKNYHNRTVEVRTLKSFSTLANNFVLIVSQLQPSQENEMFSIRDSAHRRFLLFRRAFKQL	153
NP_006841_NM_006850_exon4	FKNYHNRTVEVRTLKSFSTLANNFVLIVSQLQPS-----	53
NP_006841_NM_006850	FKNYHNRTVEVRTLKSFSTLANNFVLIVSQLQPSQENEMFSIRDSAHRRFLLFRRAFKQL	180
CLN00453866_5pv1.a	-----SQENEMFSIRDSAHRRFLLFRRAFKQL	100
NP_006841_NM_006850_exon1	-----	14
CLN00493987_5pv1.a	DVEAALTKALGEVDILLTWMQKFYKL	179
NP_006841_NM_006850_exon4	-----	53
NP_006841_NM_006850	DVEAALTKALGEVDILLTWMQKFYKL	206
CLN00453866_5pv1.a	DVEAALTKALGEVDILLTWMQKFYKL	126
NP_006841_NM_006850_exon1	-----	14

Fig. 2

CLN00108891_5pv1.a	MAMMEVQGGPSLGTCTCLIVIFTVLLQSLCVAVTYYFTNELKQM-----	45
CLN00108891_frag1	-----	0
CLN00108891_frag2	-----NELKQM-----	6
NP_003801_NM_003810_frag1	-----	0
NP_003801_NM_003810	MAMMEVQGGPSLGTCTCLIVIFTVLLQSLCVAVTYYFTNELKQMQDKYSKSGIACFLKE	60
CLN00108891_5pv1.a	-----ILRTSEETISTVQEKQQNISPLVRERGPQ	74
CLN00108891_frag1	-----ILRTSEETISTVQEKQQNISPLVRERGPQ	29
CLN00108891_frag2	-----ILRTSEETISTVQEKQQNISPLVRERGPQ	35
NP_003801_NM_003810_frag1	-----VRERGPQ	7
NP_003801_NM_003810	DDSYWDPNDEESMNSPCWQVKWLRLQVRKMLRTSEETISTVQEKQQNISPLVRERGPQ	120

CLN00108891_5pv1.a	RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKG	134
CLN00108891_frag1	RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKG	89
CLN00108891_frag2	RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKG	95
NP_003801_NM_003810_frag1	RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKG	67
NP_003801_NM_003810	RVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKG	180

CLN00108891_5pv1.a	FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYDPDPILLMKSARNSCWSKDAEYGLY	194
CLN00108891_frag1	FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYDPDPILLMKSARNSCWSKDAEYGLY	149
CLN00108891_frag2	FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYDPDPILLMKSARNSCWSKDAEYGLY	155
NP_003801_NM_003810_frag1	FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYDPDPILLMKSARNSCWSKDAEYGLY	127
NP_003801_NM_003810	FYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYDPDPILLMKSARNSCWSKDAEYGLY	240

CLN00108891_5pv1.a	SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLG	235
CLN00108891_frag1	SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLG	190
CLN00108891_frag2	SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLG	196
NP_003801_NM_003810_frag1	SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLG	168
NP_003801_NM_003810	SIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFVLG	281

Fig. 3

APO2L Constructs

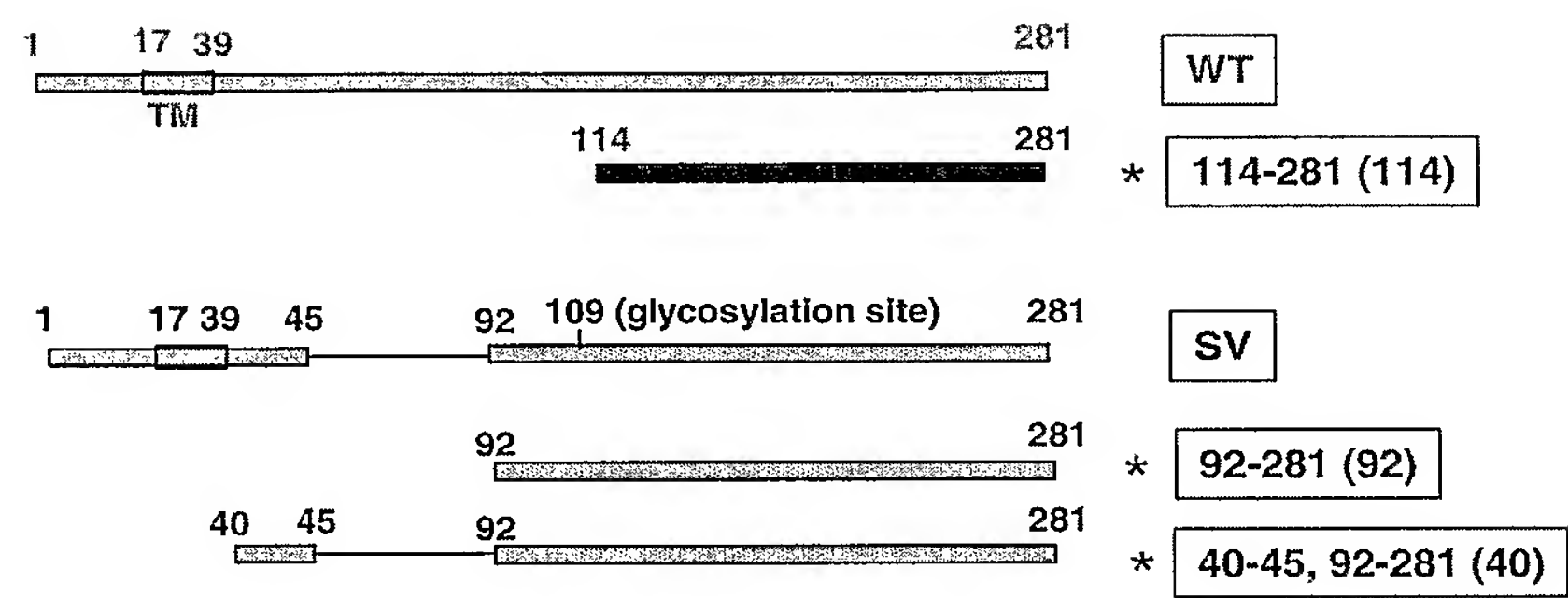
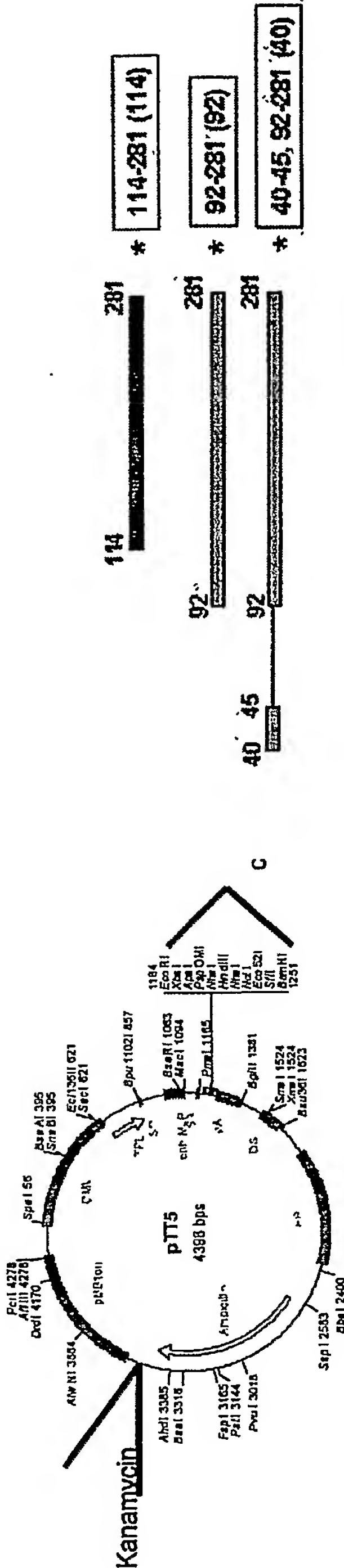


Fig. 4

Vectors for Producing Secreted Proteins with and w/o a CleavableTag

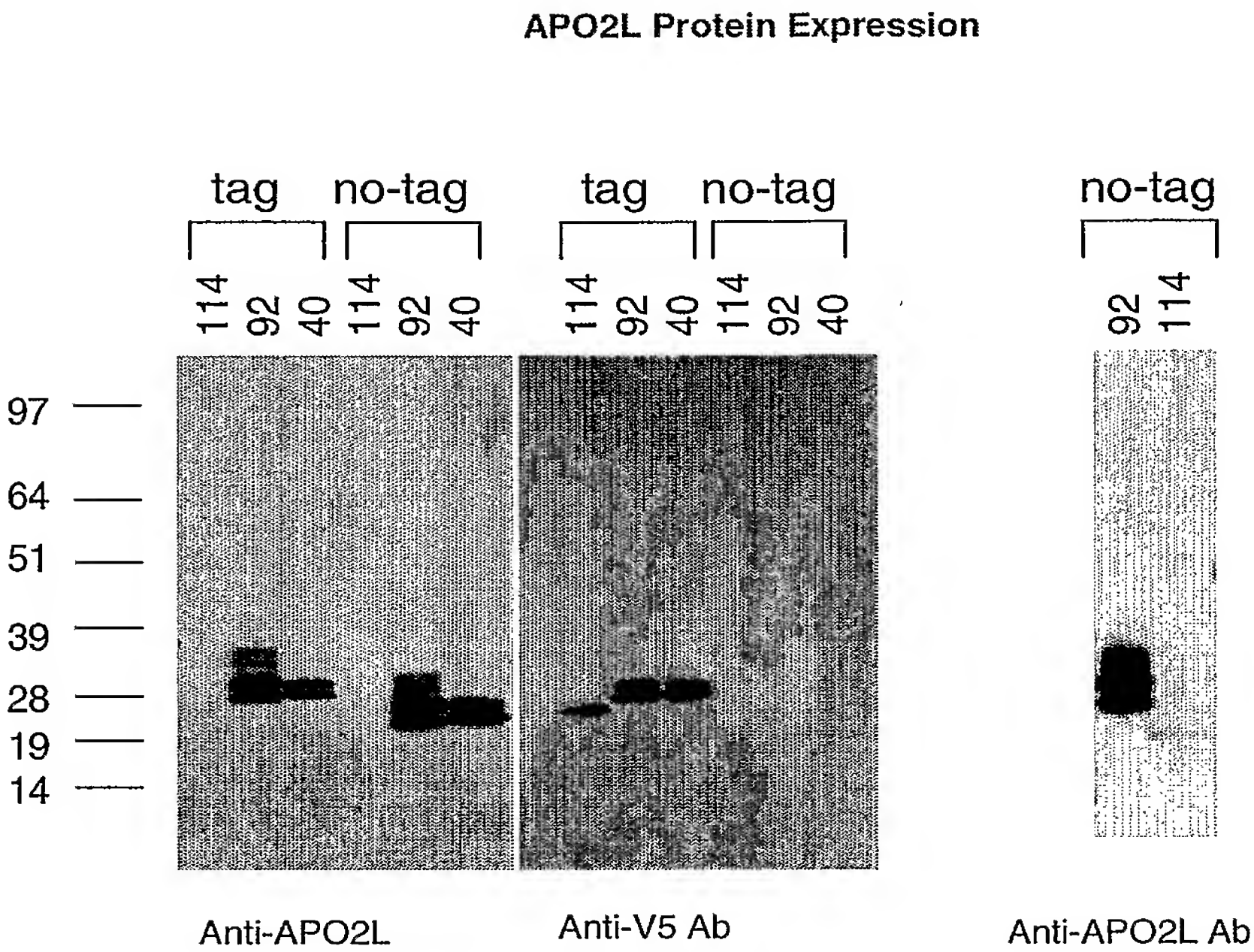


Vector C:

GCCGCCACCATGAAGACCTGCTGGAAATTCAGTTTCTTGTGTCAGTTTCCCTGGAAACCTGGGCATCT
Kozak SP
GCAGAATTC-----GGATCCCTGGTTCGGGTCAGGCTCATTCCGAAGGTAAGCCTATCCCTAACCCCTCCTCGGTC
EcoR1 BamH1 Thrombin V5H8
GATTCTACGGTACCGGTCATCATCACCATCACCATGAGGACAGTGA

Our vector in the pipeline:
25 aa for sp and EcoRI---3kD
41aa for BamHI and Thrombin site and V5H8(25aa) ---5kD
No-tag: add 3 kD
Tag: add 8 kD

Fig. 5



	protein	Molecular Mass	no-tag	with tag
114	168 aa	19.5 kD	23 kD	28 kD
92	190 aa	22 kD	25 kD	30 kD
40	196 aa	22.7 kD	26 kD	31 kD

Fig. 6

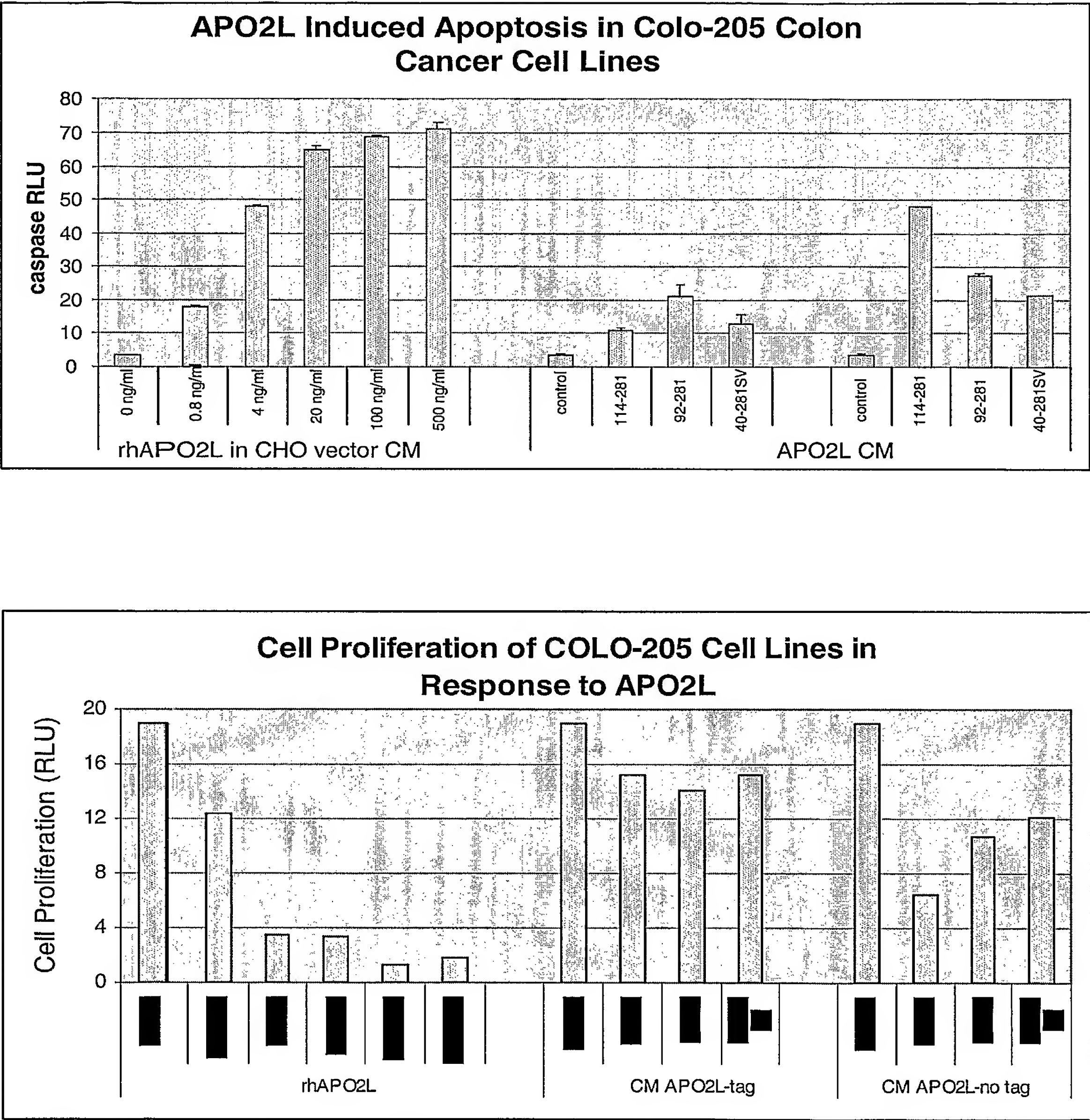


Fig. 7

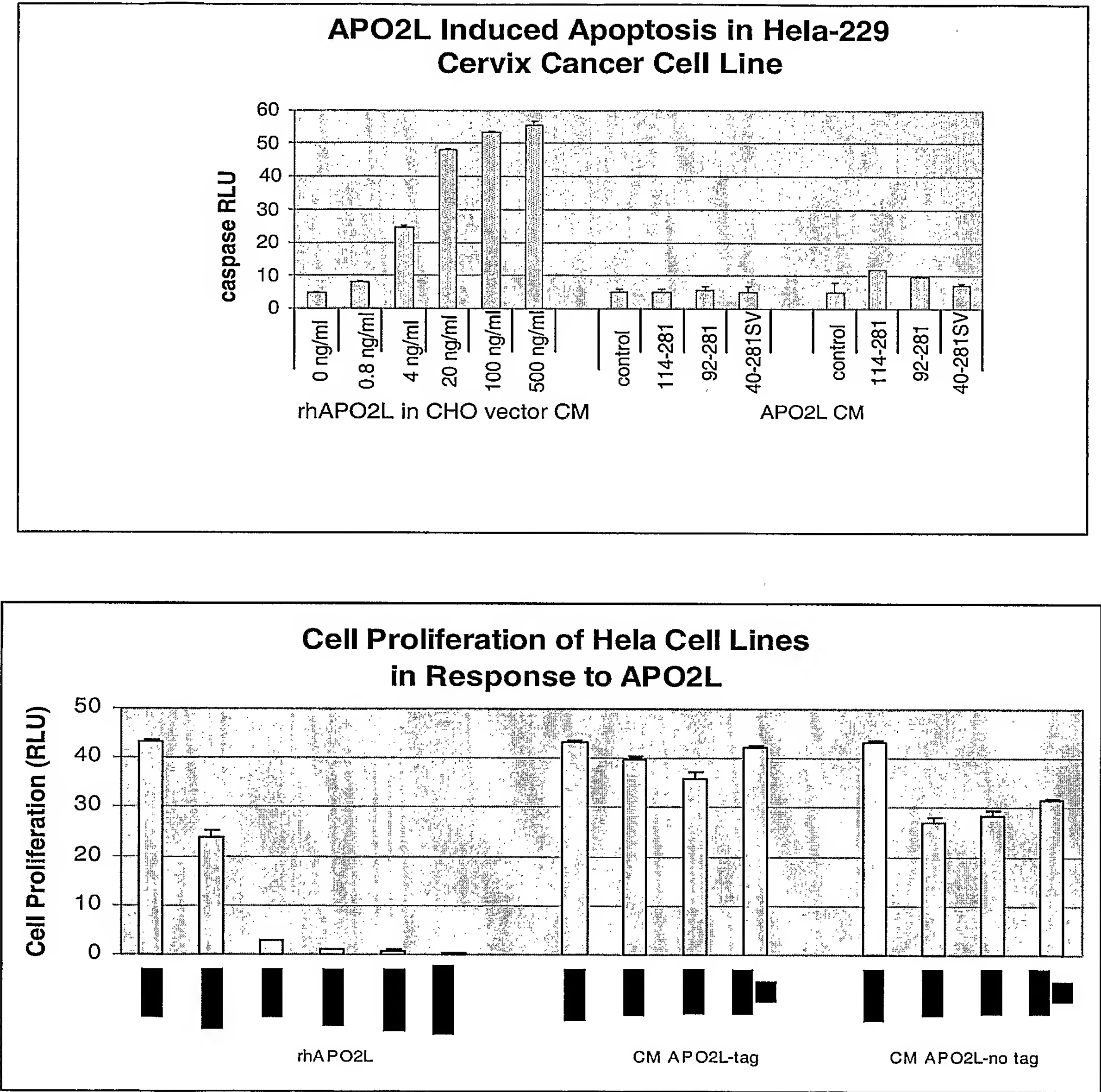


Fig. 8

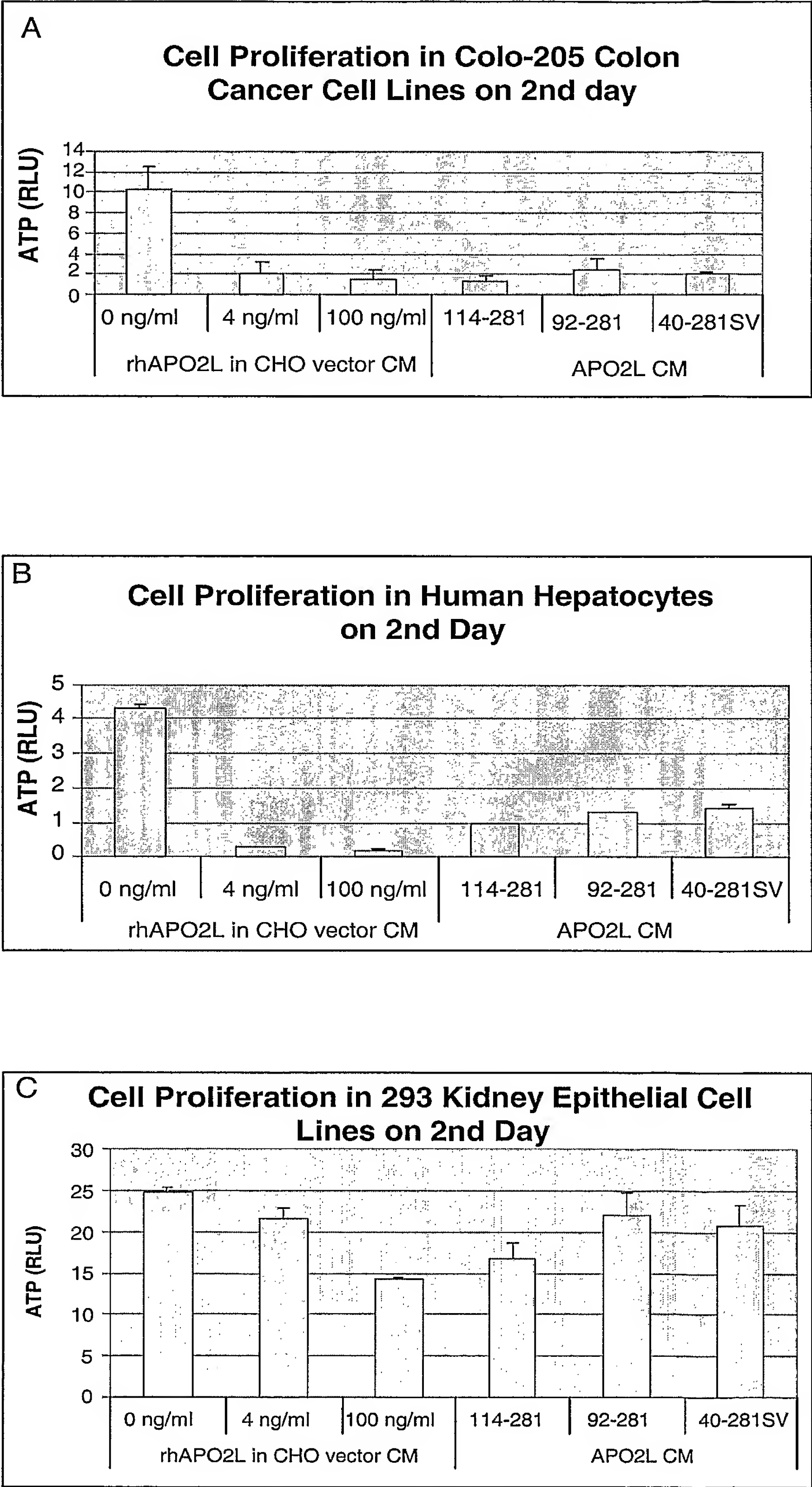


Fig. 9

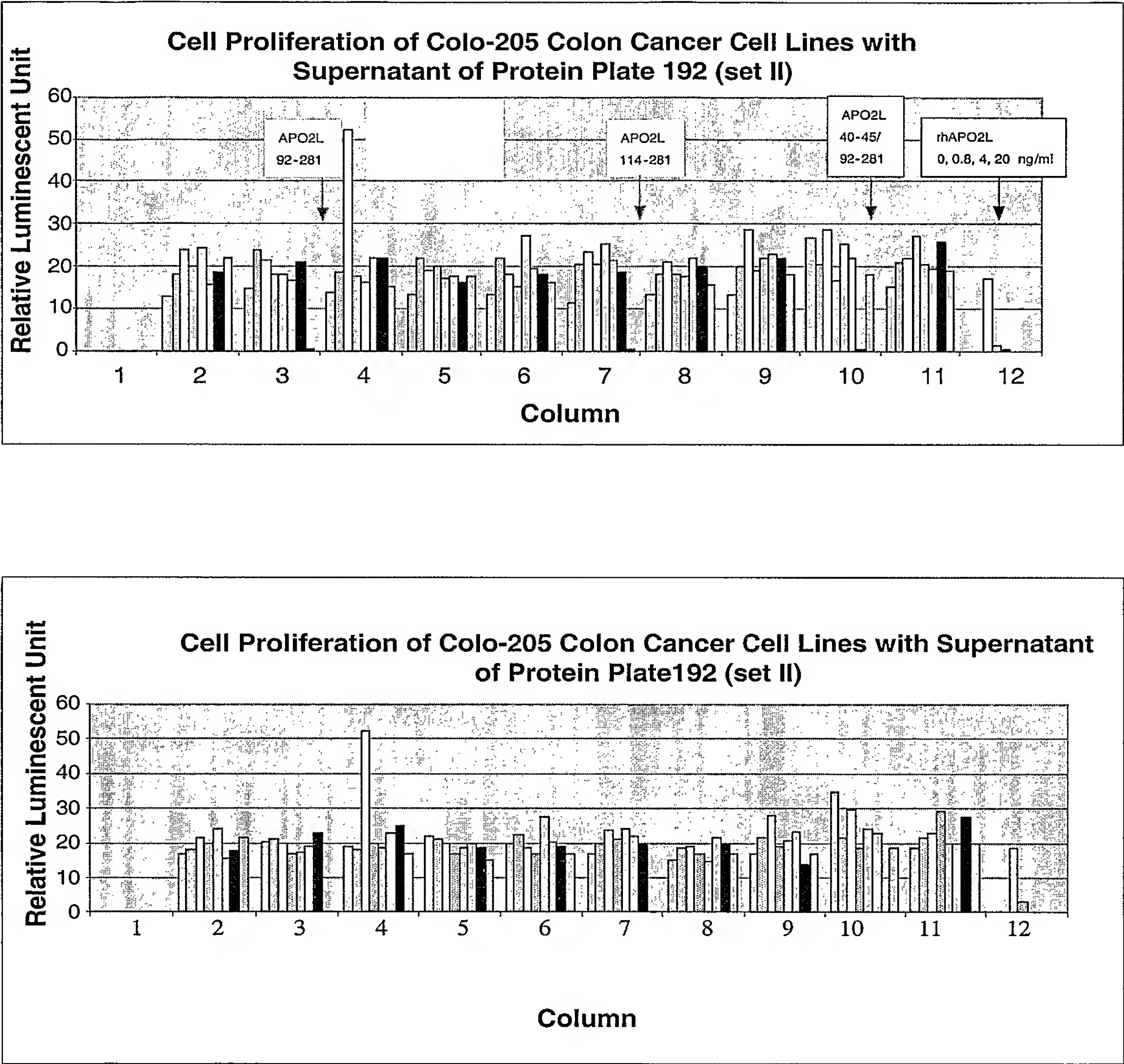


Fig.10

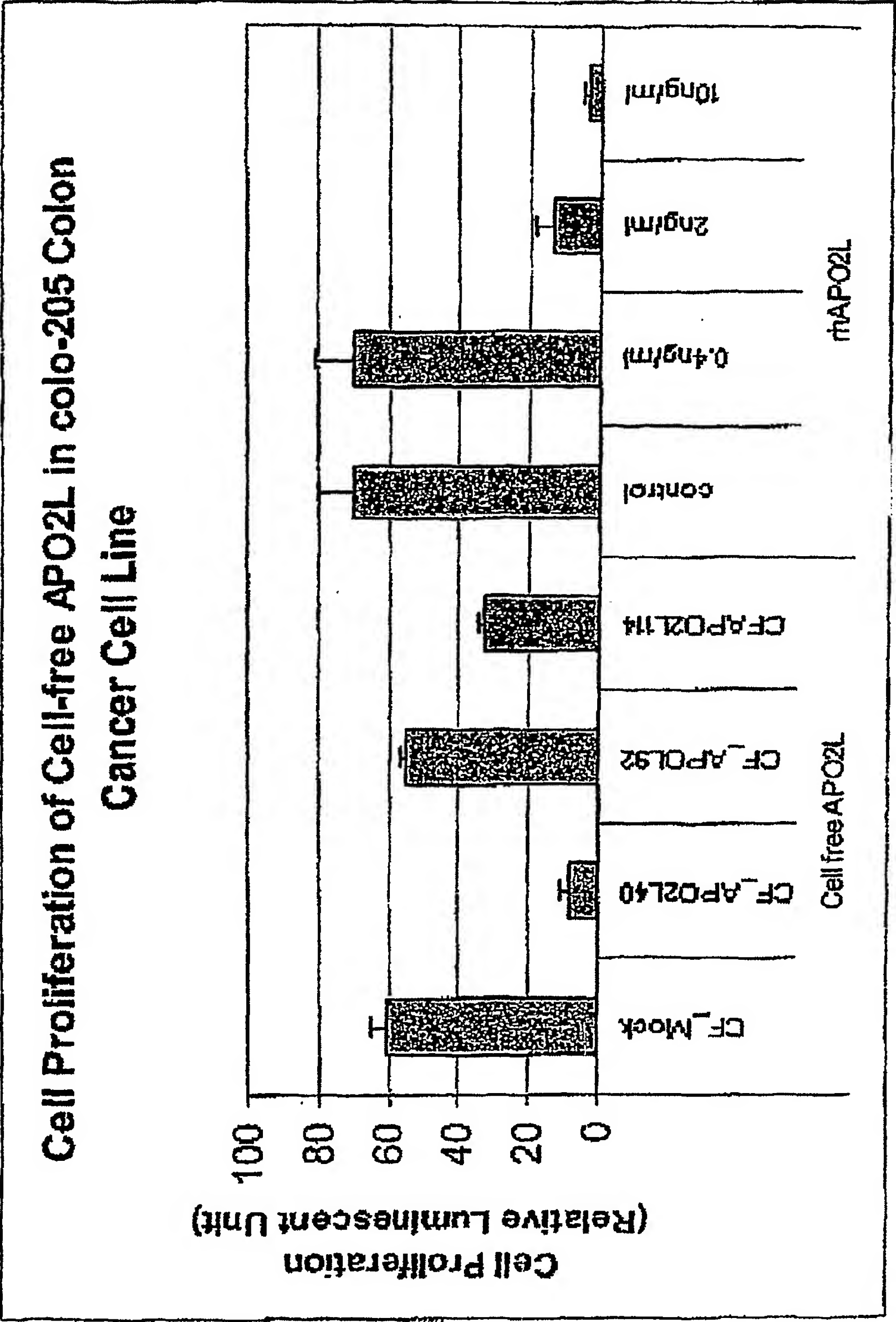


Fig. 11